

COC# 190

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CHAIN OF CUSTODY REPORT

Work Order #: M107052

CLIENT: BRISTOL		INVOICE TO: BRISTOL										TURNAROUND REQUEST in Business Days* Organic & Inorganic Analyses <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">10</div> <div style="border: 1px solid black; padding: 2px;">7</div> <div style="border: 1px solid black; padding: 2px;">5</div> <div style="border: 1px solid black; padding: 2px;">4</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">2</div> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;"><1</div> </div> STD. Petroleum Hydrocarbon Analyses <div style="display: flex; justify-content: space-around;"> <div style="border: 1px solid black; padding: 2px;">5</div> <div style="border: 1px solid black; padding: 2px;">4</div> <div style="border: 1px solid black; padding: 2px;">3</div> <div style="border: 1px solid black; padding: 2px;">2</div> <div style="border: 1px solid black; padding: 2px;">1</div> <div style="border: 1px solid black; padding: 2px;"><1</div> </div> STD. OTHER Please Specify _____ <small>*Turnaround Requests less than standard may incur Rush Charges.</small>											
REPORT TO: ANNE KRANAWETTER		P.O. NUMBER: 21090																					
ADDRESS: AMCHITKA AK																							
PHONE: 907-770-0974 FAX: 770-0975		REQUESTED ANALYSES																					
PROJECT NAME: AMCHITKA		DRO/RRO	GRO	BTEX w/Naph																			
PROJECT NUMBER: 21090																							
SAMPLED BY: KLP																							
CLIENT SAMPLE IDENTIFICATION	SAMPLING DATE/TIME																			MATRIX (W, S, O)	# OF CONT.	COMMENTS	NCA WO ID
1. 01 AM HV3 01 SL	7/26/01 0850	X	X	X															S	2			
2. 01 AM HV3 02 SL	7/26/01 0855	X	X	X															S	2			
3. 01 AM HV3 03 SL	7/26/01 0900	X	X	X															S	2			
4. 01 AM HV3 04 SL	7/26/01 0905	X	X	X															S	2			
5. 01 AM HV3 05 SL	7/26/01 0910	X	X	X															S	2			
6. 01 AM HV3 06 SL	7/26/01 0915		X	X															S	1			
7.																							
8.																							
9.																							
10.																							
11.																							
12.																							
13.																							
14.																							
15.																							
RELINQUISHED BY: Anne Kranawetter		DATE: 7/26/01		RECEIVED BY: [Signature]														DATE: 7/26/01					
PRINT NAME: Anne Kranawetter		TIME: 9:19		PRINT NAME: Stephen W. [Signature]														TIME: 0949					
RELINQUISHED BY:		DATE:		RECEIVED BY:														DATE:					
PRINT NAME:		TIME:		PRINT NAME:														TIME:					
FIRM: BRISTOL		FIRM:		FIRM: NCA														FIRM:					
FIRM:		FIRM:		FIRM:														FIRM:					
ADDITIONAL REMARKS: HAVE PIG #3, confirmation sampling																TEMP:		PAGE OF					



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7 December, 2001

Anne Kranawetter
Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

RE: Amchitka

Enclosed are the results of analyses for samples received by the laboratory on 07/26/01 09:49. If you have any questions concerning this report, please feel free to contact me.

This report was recreated from a previously issued final report in order to provide an electronic copy. The final report used for these electronic copies may have been previously issued as an amended report due to client requested changes to sample names, etc. No data has changed since submission of the previously issued final, or amended, report.

Sincerely,

Stephen Wilson
Environmental Group Leader

Work Orders included in this report:

M107052



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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 01:35

ANALYTICAL REPORT FOR SAMPLES

Sample ID	Laboratory ID	Matrix	Date Sampled	Date Received
01AMHV312SL	M107052-01	Soil	07/26/01 08:50	07/26/01 09:49
01AMHV313SL	M107052-02	Soil	07/26/01 08:55	07/26/01 09:49
01AMHV314SL	M107052-03	Soil	07/26/01 09:00	07/26/01 09:49
01AMHV315SL	M107052-04	Soil	07/26/01 09:05	07/26/01 09:49
01AMHV316SL	M107052-05	Soil	07/26/01 09:10	07/26/01 09:49
01AMHV317SL	M107052-06	Soil	07/26/01 09:15	07/26/01 09:49

COC #190

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

North Creek Analytical, Inc.
Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 01:35

Gasoline Range Organics (n-Hexane to <n-Decane) per AK101
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV312SL (M107052-01) Soil						Sampled: 07/26/01 Received: 07/26/01			
Gasoline Range Organics	ND	9.80	mg/kg dry	50	AK 101	07/26/01	07/26/01	0107097	
<i>Surr: 4-BFB (FID)</i>	85.1 %	50-150							
01AMHV313SL (M107052-02) Soil						Sampled: 07/26/01 Received: 07/26/01			
Gasoline Range Organics	ND	8.63	mg/kg dry	50	AK 101	07/26/01	07/26/01	0107097	
<i>Surr: 4-BFB (FID)</i>	86.0 %	50-150							
01AMHV314SL (M107052-03) Soil						Sampled: 07/26/01 Received: 07/26/01			
Gasoline Range Organics	ND	7.97	mg/kg dry	50	AK 101	07/26/01	07/26/01	0107097	
<i>Surr: 4-BFB (FID)</i>	81.4 %	50-150							
01AMHV315SL (M107052-04) Soil						Sampled: 07/26/01 Received: 07/26/01			
Gasoline Range Organics	ND	8.15	mg/kg dry	50	AK 101	07/26/01	07/26/01	0107097	
<i>Surr: 4-BFB (FID)</i>	89.4 %	50-150							
01AMHV316SL (M107052-05) Soil						Sampled: 07/26/01 Received: 07/26/01			
Gasoline Range Organics	ND	8.47	mg/kg dry	50	AK 101	07/26/01	07/26/01	0107097	
<i>Surr: 4-BFB (FID)</i>	90.7 %	50-150							
01AMHV317SL (M107052-06) Soil						Sampled: 07/26/01 Received: 07/26/01			
Gasoline Range Organics	ND	16.0	mg/kg dry	50	AK 101	07/26/01	07/26/01	0107097	
<i>Surr: 4-BFB (FID)</i>	91.3 %	50-150							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Environmental Laboratory Network

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 01:35

Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) per AK102 and AK103
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMHV312SL (M107052-01) Soil

Sampled: 07/26/01 Received: 07/26/01

Residual Range Organics	ND	300	mg/kg dry	1	AK102/103	07/26/01	07/26/01	0107098	
Diesel Range Organics	ND	150	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	110 %	50-150							
Surr: Triacontane	98.3 %	50-150							

01AMHV313SL (M107052-02) Soil

Sampled: 07/26/01 Received: 07/26/01

Residual Range Organics	ND	300	mg/kg dry	1	AK102/103	07/26/01	07/26/01	0107098	
Diesel Range Organics	ND	150	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	104 %	50-150							
Surr: Triacontane	104 %	50-150							

01AMHV314SL (M107052-03) Soil

Sampled: 07/26/01 Received: 07/26/01

Residual Range Organics	ND	300	mg/kg dry	1	AK102/103	07/26/01	07/26/01	0107098	
Diesel Range Organics	ND	150	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	101 %	50-150							
Surr: Triacontane	105 %	50-150							

01AMHV315SL (M107052-04) Soil

Sampled: 07/26/01 Received: 07/26/01

Residual Range Organics	ND	300	mg/kg dry	1	AK102/103	07/26/01	07/26/01	0107098	
Diesel Range Organics	ND	150	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	94.1 %	50-150							
Surr: Triacontane	108 %	50-150							

01AMHV316SL (M107052-05) Soil

Sampled: 07/26/01 Received: 07/26/01

Residual Range Organics	ND	300	mg/kg dry	1	AK102/103	07/26/01	07/27/01	0107098	
Diesel Range Organics	ND	150	"	"	"	"	"	"	
Surr: 1-Chlorooctadecane	103 %	50-150							
Surr: Triacontane	108 %	50-150							

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 01:35

BTEX, MTBE and Naphthalene per EPA Method 8021B
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV312SL (M107052-01) Soil					Sampled: 07/26/01 Received: 07/26/01				
Benzene	ND	0.0613	mg/kg dry	50	1B BTEX/MTI	07/26/01	07/26/01	0107097	
Toluene	ND	0.245	"	"	"	"	"	"	
Ethylbenzene	ND	0.245	"	"	"	"	"	"	
Xylenes (total)	ND	0.490	"	"	"	"	"	"	
Naphthalene	ND	2.45	"	"	"	"	"	"	
<i>Surr: 4-BFB</i>	88.2 %	50-150							
01AMHV313SL (M107052-02) Soil					Sampled: 07/26/01 Received: 07/26/01				
Benzene	ND	0.0539	mg/kg dry	50	1B BTEX/MTI	07/26/01	07/26/01	0107097	
Toluene	ND	0.216	"	"	"	"	"	"	
Ethylbenzene	ND	0.216	"	"	"	"	"	"	
Xylenes (total)	ND	0.431	"	"	"	"	"	"	
Naphthalene	ND	2.16	"	"	"	"	"	"	
<i>Surr: 4-BFB</i>	90.0 %	50-150							
01AMHV314SL (M107052-03) Soil					Sampled: 07/26/01 Received: 07/26/01				
Benzene	ND	0.0498	mg/kg dry	50	1B BTEX/MTI	07/26/01	07/26/01	0107097	
Toluene	ND	0.199	"	"	"	"	"	"	
Ethylbenzene	ND	0.199	"	"	"	"	"	"	
Xylenes (total)	ND	0.398	"	"	"	"	"	"	
Naphthalene	ND	1.99	"	"	"	"	"	"	
<i>Surr: 4-BFB</i>	86.7 %	50-150							
01AMHV315SL (M107052-04) Soil					Sampled: 07/26/01 Received: 07/26/01				
Benzene	ND	0.0509	mg/kg dry	50	1B BTEX/MTI	07/26/01	07/26/01	0107097	
Toluene	ND	0.204	"	"	"	"	"	"	
Ethylbenzene	ND	0.204	"	"	"	"	"	"	
Xylenes (total)	ND	0.407	"	"	"	"	"	"	
Naphthalene	ND	2.04	"	"	"	"	"	"	
<i>Surr: 4-BFB</i>	96.3 %	50-150							

North Creek Analytical - Mobile Lab

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 01:35

BTEX, MTBE and Naphthalene per EPA Method 8021B

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
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01AMHV316SL (M107052-05) Soil

Sampled: 07/26/01 Received: 07/26/01

Benzene	ND	0.0529	mg/kg dry	50	1B BTEX/MTI	07/26/01	07/26/01	0107097	
Toluene	ND	0.212	"	"	"	"	"	"	
Ethylbenzene	ND	0.212	"	"	"	"	"	"	
Xylenes (total)	ND	0.424	"	"	"	"	"	"	
Naphthalene	ND	2.12	"	"	"	"	"	"	

Surr: 4-BFB 96.7 % 50-150

01AMHV317SL (M107052-06) Soil

Sampled: 07/26/01 Received: 07/26/01

Benzene	ND	0.100	mg/kg dry	50	1B BTEX/MTI	07/26/01	07/26/01	0107097	
Toluene	ND	0.400	"	"	"	"	"	"	
Ethylbenzene	ND	0.400	"	"	"	"	"	"	
Xylenes (total)	ND	0.800	"	"	"	"	"	"	
Naphthalene	ND	4.00	"	"	"	"	"	"	

Surr: 4-BFB 92.8 % 50-150

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 01:35

Physical Parameters per APHA/ASTM/EPA Methods
North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Dilution	Method	Prepared	Analyzed	Batch	Notes
01AMHV312SL (M107052-01) Soil					Sampled: 07/26/01 Received: 07/26/01				
% Solids	98.1	0.0100 % by Weight		1	Gravimetric	07/26/01	07/27/01	0107104	
01AMHV313SL (M107052-02) Soil					Sampled: 07/26/01 Received: 07/26/01				
% Solids	96.7	0.0100 % by Weight		1	Gravimetric	07/26/01	07/27/01	0107104	
01AMHV314SL (M107052-03) Soil					Sampled: 07/26/01 Received: 07/26/01				
% Solids	96.3	0.0100 % by Weight		1	Gravimetric	07/26/01	07/27/01	0107104	
01AMHV315SL (M107052-04) Soil					Sampled: 07/26/01 Received: 07/26/01				
% Solids	98.4	0.0100 % by Weight		1	Gravimetric	07/26/01	07/27/01	0107104	
01AMHV316SL (M107052-05) Soil					Sampled: 07/26/01 Received: 07/26/01				
% Solids	98.0	0.0100 % by Weight		1	Gravimetric	07/26/01	07/27/01	0107104	
01AMHV317SL (M107052-06) Soil					Sampled: 07/26/01 Received: 07/26/01				
% Solids	100	0.0100 % by Weight		1	Gravimetric	07/26/01	07/27/01	0107104	

North Creek Analytical - Mobile Lab

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Bristol Environmental & Engineering
2000 W International Airport C#1
Anchorage, AK 99502-1116

Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 01:35

Gasoline Range Organics (n-Hexane to <n-Decane) per AK101 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107097 - MeOH Extraction

Blank (0107097-BLK1)

Prepared & Analyzed: 07/26/01

Gasoline Range Organics ND 4.00 mg/kg wet

Surr: 4-BFB (FID) 2.28 " 2.50 91.2 50-150

LCS (0107097-BS2)

Prepared & Analyzed: 07/26/01

Gasoline Range Organics 27.7 4.00 mg/kg wet 25.0 111 50-150

Surr: 4-BFB (FID) 9.49 " 10.0 94.9 50-150

North Creek Analytical - Mobile Lab

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Bristol Environmental & Engineering	Project: Amchitka	Reported: 10/25/01 01:35
2000 W International Airport C#1	Project Number: 21090	
Anchorage, AK 99502-1116	Project Manager: Anne Kranawetter	

Diesel Hydrocarbons (C10-C25) and Heavy Oil (C25-C36) per AK102 and AK103 - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107098 - 3545 ASE

Blank (0107098-BLK1)

Prepared & Analyzed: 07/26/01

Residual Range Organics	ND	300	mg/kg wet							
Diesel Range Organics	ND	150	"							
Surr: 1-Chlorooctadecane	23.5		"	23.7		99.2	50-150			
Surr: Triacotane	20.7		"	23.5		88.1	50-150			

LCS (0107098-BS1)

Prepared & Analyzed: 07/26/01

Diesel Range Organics	1030	150	mg/kg wet	1250		82.4	75-125			
Surr: 1-Chlorooctadecane	26.3		"	23.7		111	50-150			
Surr: Triacotane	21.0		"	23.5		89.4	50-150			

LCS (0107098-BS2)

Prepared & Analyzed: 07/26/01

Residual Range Organics	518	300	mg/kg wet	625		82.9	60-120			
Surr: 1-Chlorooctadecane	25.3		"	23.7		107	50-150			
Surr: Triacotane	24.6		"	23.5		105	50-150			

LCS Dup (0107098-BSD1)

Prepared & Analyzed: 07/26/01

Diesel Range Organics	940	150	mg/kg wet	1250		75.2	75-125	9.14	20	
Surr: 1-Chlorooctadecane	24.6		"	23.7		104	50-150			
Surr: Triacotane	19.7		"	23.5		83.8	50-150			

LCS Dup (0107098-BSD2)

Prepared & Analyzed: 07/26/01

Residual Range Organics	511	300	mg/kg wet	625		81.8	60-120	1.36	25	
Surr: 1-Chlorooctadecane	24.7		"	23.7		104	50-150			
Surr: Triacotane	24.3		"	23.5		103	50-150			

Matrix Spike (0107098-MS1)

Source: M107052-01

Prepared & Analyzed: 07/26/01

Diesel Range Organics	1030	150	mg/kg dry	1240	ND	73.1	0-200			
Surr: 1-Chlorooctadecane	21.7		"	23.4		92.7	50-150			
Surr: Triacotane	23.0		"	23.2		99.1	50-150			

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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North Creek Analytical, Inc.
Environmental Laboratory Network



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Bristol Environmental & Engineering	Project: Amchitka	Reported: 10/25/01 01:35
2000 W International Airport C#1	Project Number: 21090	
Anchorage, AK 99502-1116	Project Manager: Anne Kranawetter	

BTEX, MTBE and Naphthalene per EPA Method 8021B - Quality Control

North Creek Analytical - Mobile Lab

Analyte	Result	Reporting Limit	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Notes
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Batch 0107097 - MeOH Extraction

Blank (0107097-BLK1)

Prepared & Analyzed: 07/26/01

Benzene	ND	0.0250	mg/kg wet							
Toluene	ND	0.100	"							
Ethylbenzene	ND	0.100	"							
Xylenes (total)	ND	0.200	"							
Naphthalene	ND	1.00	"							
<i>Surr: 4-BFB</i>	2.35		"	2.50		94.0	50-150			

LCS (0107097-BS1)

Prepared & Analyzed: 07/26/01

Benzene	2.14	0.0250	mg/kg wet	2.50		85.6	69-138			
Toluene	2.27	0.100	"	2.50		90.8	53-151			
Ethylbenzene	2.27	0.100	"	2.50		90.8	61-141			
Xylenes (total)	6.98	0.200	"	7.50		93.1	62-141			
Naphthalene	2.45	1.00	"	2.50		98.0	65-135			
<i>Surr: 4-BFB</i>	2.46		"	2.50		98.4	50-150			

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2000 W International Airport C#1
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Project: Amchitka
Project Number: 21090
Project Manager: Anne Kranawetter

Reported:
10/25/01 01:35

Notes and Definitions

DET Analyte DETECTED
ND Analyte NOT DETECTED at or above the reporting limit
NR Not Reported
dry Sample results reported on a dry weight basis. MRLs are adjusted if %Solids are less than 50%.
wet Sample results reported on a wet weight basis (as received)
RPD Relative Percent Difference

North Creek Analytical - Mobile Lab

Stephen Wilson, Environmental Group Leader

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Environmental Laboratory Network

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Items for Project Manager Review

LabNumber	Analysis	Analyte	Exception
			Report recreated from: \\sisters\elmnt\Report\M107052 FINAL 10 25 01 0135.mdb
			Default Report (not modified)
0107097-BLK1	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
0107097-BS2	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
0107098-BLK1	AK102/103	Residual Range Organics	Additional analyte reported
0107098-BS2	AK102/103	Residual Range Organics	Additional analyte reported
0107098-BSD2	AK102/103	Residual Range Organics	Additional analyte reported
M107052-01	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M107052-01	AK102/103	Residual Range Organics	Additional analyte reported
M107052-02	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M107052-02	AK102/103	Residual Range Organics	Additional analyte reported
M107052-03	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M107052-03	AK102/103	Residual Range Organics	Additional analyte reported
M107052-04	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M107052-04	AK102/103	Residual Range Organics	Additional analyte reported
M107052-05	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported
M107052-05	AK102/103	Residual Range Organics	Additional analyte reported
M107052-06	AK101 (GRO)	Gasoline Range Organics	Additional analyte reported